

820 Payment Order/Remittance Advice

Functional Group ID=**RA**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Payment Order/Remittance Advice Transaction Set (820) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to make a payment, send a remittance advice, or make a payment and send a remittance advice. This transaction set can be an order to a financial institution to make a payment to a payee. It can also be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

Notes:

1. This standard is the accepted Treasury convention for the On-line Payment and Collection (OPAC) system and the Electronic Data Interchange Payment and Collection (EDIPAC) system. The transaction set is used by Federal Agencies to make a payment and send a remittance advice.

2. Special processing instructions are provided for agencies that wish to transmit transactions between EDIPAC and OPAC on-line users.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1		
Not Used	030	NTE	Note/Special Instruction	O	>1		
	035	TRN	Trace	O	1		c1
Not Used	040	CUR	Currency	O	1		c2
	050	REF	Reference Numbers	O	>1		
	060	DTM	Date/Time Reference	O	>1		
			LOOP ID - N1			>1	
	070	N1	Name	O	1		c3
Not Used	080	N2	Additional Name Information	O	>1		
Not Used	090	N3	Address Information	O	>1		
Not Used	100	N4	Geographic Location	O	1		
	110	REF	Reference Numbers	O	>1		
	120	PER	Administrative Communications Contact	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - ENT			>1	
	010	ENT	Entity	O	1		n1, c4
			LOOP ID - N1			>1	
Not Used	020	N1	Name	O	1		c5
Not Used	030	N2	Additional Name Information	O	>1		
Not Used	040	N3	Address Information	O	>1		

820 - Payment Order/Remittance Advice

Not Used	050	N4	Geographic Location	O	1	
Not Used	060	REF	Reference Numbers	O	>1	
Not Used	070	PER	Administrative Communications Contact	O	>1	
LOOP ID - ADX					>1	
Not Used	080	ADX	Adjustment	O	1	c6
Not Used	090	NTE	Note/Special Instruction	O	>1	
Not Used	100	PER	Administrative Communications Contact	O	>1	
Not Used	105	DTM	Date/Time Reference	O	1	
LOOP ID - REF					>1	
Not Used	110	REF	Reference Numbers	O	1	
Not Used	120	DTM	Date/Time Reference	O	>1	
LOOP ID - IT1					>1	
Not Used	130	IT1	Baseline Item Data (Invoice)	O	1	c7
LOOP ID - REF					>1	
Not Used	140	REF	Reference Numbers	O	1	
Not Used	141	DTM	Date/Time Reference	O	1	
LOOP ID - SAC					>1	
Not Used	142	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	143	TXI	Tax Information	O	>1	
LOOP ID - SLN					>1	
Not Used	144	SLN	Subline Item Detail	O	1	
LOOP ID - REF					>1	
Not Used	145	REF	Reference Numbers	O	1	
Not Used	146	DTM	Date/Time Reference	O	>1	
LOOP ID - SAC					>1	
Not Used	147	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	148	TXI	Tax Information	O	>1	
LOOP ID - RMR					>1	
	150	RMR	Remittance Advice Accounts Receivable Open Item Reference	O	1	c8
Not Used	160	NTE	Note/Special Instruction	O	>1	
	170	REF	Reference Numbers	O	>1	
	180	DTM	Date/Time Reference	O	>1	
LOOP ID - IT1					>1	
	190	IT1	Baseline Item Data (Invoice)	O	1	c9
LOOP ID - REF					>1	
Not Used	200	REF	Reference Numbers	O	1	
Not Used	201	DTM	Date/Time Reference	O	1	
LOOP ID - SAC					>1	
	202	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	203	TXI	Tax Information	O	>1	
LOOP ID - SLN					>1	
Not Used	204	SLN	Subline Item Detail	O	1	
LOOP ID - REF					>1	
Not Used	205	REF	Reference Numbers	O	1	
Not Used	206	DTM	Date/Time Reference	O	>1	

820 - Payment Order/Remittance Advice

			LOOP ID - SAC			>1	
Not Used	207	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	208	TXI	Tax Information	O	>1		
			LOOP ID - ADX			>1	
	210	ADX	Adjustment	O	1	c10	
Not Used	220	NTE	Note/Special Instruction	O	>1		
	230	PER	Administrative Communications Contact	O	>1		
			LOOP ID - REF			>1	
Not Used	240	REF	Reference Numbers	O	1		
Not Used	250	DTM	Date/Time Reference	O	>1		
			LOOP ID - IT1			>1	
Not Used	260	IT1	Baseline Item Data (Invoice)	O	1	c11	
			LOOP ID - REF			>1	
Not Used	270	REF	Reference Numbers	O	1		
Not Used	271	DTM	Date/Time Reference	O	1		
			LOOP ID - SAC			>1	
Not Used	272	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	273	TXI	Tax Information	O	>1		
			LOOP ID - SLN			>1	
Not Used	274	SLN	Subline Item Detail	O	1		
			LOOP ID - REF			>1	
Not Used	275	REF	Reference Numbers	O	1		
Not Used	276	DTM	Date/Time Reference	O	>1		
			LOOP ID - SAC			>1	
Not Used	277	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	278	TXI	Tax Information	O	>1		
			LOOP ID - TXP			>1	
Not Used	280	TXP	Tax Payment	O	1	n2	
Not Used	285	TXI	Tax Information	O	>1		
			LOOP ID - DED			>1	
Not Used	287	DED	Deductions	O	1	n3	
			LOOP ID - LX			>1	
Not Used	290	LX	Assigned Number	O	1	n4	
Not Used	295	REF	Reference Numbers	O	>1		
Not Used	300	TRN	Trace	O	>1		
			LOOP ID - NM1			>1	
Not Used	305	NM1	Individual or Organizational Name	O	1		
Not Used	310	REF	Reference Numbers	O	>1		
Not Used	315	G53	Maintenance Type	O	1		
			LOOP ID - AIN			>1	
Not Used	320	AIN	Income	O	1		
Not Used	325	QTY	Quantity	O	>1		
Not Used	330	DTP	Date or Time or Period	O	>1		
			LOOP ID - PEN			>1	
Not Used	335	PEN	Pension Information	O	1		

820 - Payment Order/Remittance Advice

Not Used	340	AMT	Monetary Amount	O	>1		
Not Used	345	DTP	Date or Time or Period	O	>1		
LOOP ID - INV						>1	
Not Used	350	INV	Investment Vehicle Selection	O	1		
Not Used	355	DTP	Date or Time or Period	O	>1		

Summary:

	<u>Pos.</u>	<u>Seg.</u>	<u>Name</u>	<u>Req.</u>	<u>Max.Use</u>	<u>Loop</u>	<u>Notes and</u>
	<u>No.</u>	<u>ID</u>		<u>Des.</u>		<u>Repeat</u>	<u>Comments</u>
Must Use	010	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The ENT loop is for vendor payments.
2. The TXP loop is for tax payments.
3. The DED loop is for child support payments.
4. The LX loop is for pension payments.

Transaction Set Comments

1. The TRN segment is used to uniquely identify a payment order/remittance advice.
2. The CUR segment does not initiate a foreign exchange transaction.
3. The N1 loop allows for name/address information for the payer and payee which would be utilized to address remittance(s) for delivery.
4. ENT09 may contain the payee's accounts receivable customer number.
5. Allowing the N1 segment to repeat in this area allows the paying entity within a payer and the paid entity within a payee to be identified (not the payer and payee).
6. This ADX loop contains adjustment items which are not netted to an RMR segment in this transaction set.
7. Loop IT1 within the ADX loop is the adjustment line item detail loop.
8. Loop RMR is for open items being referenced or for payment on account.
9. Loop IT1 within the RMR loop is the remittance line item detail loop.
10. This ADX loop can only contain adjustment information for the immediately preceding RMR segment and affects the amount (RMR04) calculation. If this adjustment amount is not netted to the immediately preceding RMR, use the outer ADX loop (position 080).
11. Loop IT1 within the ADX loop is the adjustment line item detail loop.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 820 X12.4 Payment Order/Remittance Advice	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment:	BPR Beginning Segment for Payment Order/Remittance Advice
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	(1) To indicate the beginning of a PaymentOrder/Remittance Advice Transaction Set and total payment amount or (2) to enable related transfer of funds and/or information from payer to payee to occur
Syntax Notes:	<ol style="list-style-type: none"> 1 If either BPR06 or BPR07 is present, then the other is required. 2 If BPR08 is present, then BPR09 is required. 3 If either BPR12 or BPR13 is present, then the other is required. 4 If BPR14 is present, then BPR15 is required. 5 If either BPR18 or BPR19 is present, then the other is required. 6 If BPR20 is present, then BPR21 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 BPR02 specifies the payment amount. 2 When using this transaction set to initiate a payment, BPR06 through BPR16 may be required, depending on the conventions of the specific financial channel being used. BPR06 and BPR07 relate to the originating depository financial institution (ODFI). 3 BPR08 is a code identifying the type of bank account or other financial asset. 4 BPR12 and BPR13 relate to the receiving depository financial institution (RDFI). 5 BPR14 is a code identifying the type of bank account or other financial asset. 6 BPR15 is the account number of the receiving company to be debited or credited with the payment order. 7 BPR16 is the date the originating company intends for the transaction to be settled (i.e., Payment Effective Date). 8 BPR17 is a code identifying the business reason for this payment. 9 BPR18, BPR19, BPR20 and BPR21, if used, identify a third bank identification number and account to be used for return items only. 10 BPR20 is a code identifying the type of bank account or other financial asset.
Comments:	<ol style="list-style-type: none"> 1 BPR09 is the account of the company originating the payment. This account may be debited or credited depending on the type of payment order.

Data Element Summary

Ref.	Data			
Des.	Element	Name	Attributes	
Must Use	BPR01	305 Transaction Handling Code	M	ID 1/2
		Code designating the action to be taken by all parties		
		<i>EDIPAC fm On-line: Treasury provided code when generated from the On-line system.</i>		
		C Payment Accompanies Remittance Advice		
Must Use	BPR02	782 Monetary Amount	M	R 1/15
		Monetary amount		
		<i>EDIPAC to/fm On-line: While the On-line system allows for 20 positions, the amount in EDIPAC is limited to 15 positions.</i>		
Must Use	BPR03	478 Credit/Debit Flag Code	M	ID 1/1
		Code indicating whether amount is a credit or debit		
		<i>EDIPAC fm On-line: Treasury provided code when generated from the On-line system.</i>		
		C Credit		
		<i>Credit to the receivers account.</i>		
Must Use	BPR04	591 Payment Method Code	M	ID 3/3
		Code identifying the method for the movement of payment instructions		

EDIPAC fm On-line: Treasury provided code when generated from the On-line system.

BKW

Book Entry

BKW or Book Entry is used to indicate OPAC activity.

Not Used	BPR05	812	Payment Format Code	O	ID 1/10	
			Code identifying the payment format to be used			
Not Used	BPR06	506	(DFI) ID Number Qualifier	X	ID 2/2	
			Code identifying the type of identification number of Depository Financial Institution (DFI)			
Not Used	BPR07	507	(DFI) Identification Number	X	AN 3/12	
			Depository Financial Institution (DFI) identification number			
Not Used	BPR08	569	Account Number Qualifier	O	ID 1/3	
			Code indicating the type of account			
Not Used	BPR09	508	Account Number	X	AN 1/35	
			Account number assigned			
Not Used	BPR10	509	Originating Company Identifier	O	AN 10/10	
			A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9			
Not Used	BPR11	510	Originating Company Supplemental Code	O	AN 9/9	
			A code defined between the originating company and the originating depository financial institution (ODFI) that uniquely identifies the company initiating the transfer instructions			
Not Used	BPR12	506	(DFI) ID Number Qualifier	X	ID 2/2	
			Code identifying the type of identification number of Depository Financial Institution (DFI)			
Not Used	BPR13	507	(DFI) Identification Number	X	AN 3/12	
			Depository Financial Institution (DFI) identification number			
Not Used	BPR14	569	Account Number Qualifier	O	ID 1/3	
			Code indicating the type of account			
Not Used	BPR15	508	Account Number	X	AN 1/35	
			Account number assigned			
Not Used	BPR16	373	Date	O	DT 6/6	
			Date (YYMMDD)			
Not Used	BPR17	1048	Business Function Code	O	ID 1/3	
			Code identifying the business reason for this payment			
Not Used	BPR18	506	(DFI) ID Number Qualifier	X	ID 2/2	
			Code identifying the type of identification number of Depository Financial Institution (DFI)			
Not Used	BPR19	507	(DFI) Identification Number	X	AN 3/12	
			Depository Financial Institution (DFI) identification number			
Not Used	BPR20	569	Account Number Qualifier	O	ID 1/3	
			Code indicating the type of account			
Not Used	BPR21	508	Account Number	X	AN 1/35	
			Account number assigned			

Segment: **TRN** Trace
Position: 035
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To uniquely identify a transaction to an application
Syntax Notes:
Semantic Notes:

- 1 TRN02 provides unique identification for the transaction.
- 2 TRN03 identifies an organization.
- 3 TRN04 identifies a further subdivision within the organization.

Comments:
Notes: *The TRN segment is required for OPAC processing.*

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TRN01	481	Trace Type Code Code identifying which transaction is being referenced <i>EDIPAC fm On-line: Treasury provided code when generated from the On-line system.</i> 1 Current Transaction Trace Numbers	M ID 1/2
Must Use	TRN02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>1. This reference number identifies the disbursement voucher number. 2. This element matches the Obligation Document Number in the On-line system and is limited to 17 positions.</i>	M AN 1/30
	TRN03	509	Originating Company Identifier A unique identifier designating the company initiating the funds transfer instructions. The first character is one-digit ANSI identification code designation (ICD) followed by the nine-digit identification number which may be an IRS employer identification number (EIN), data universal numbering system (DUNS), or a user assigned number; the ICD for an EIN is 1, DUNS is 3, user assigned number is 9 <i>This element is not used by the On-line system.</i>	O AN 10/10
	TRN04	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	O AN 1/30

Segment: **REF** Reference Numbers
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes:

To provide OPAC document reference number. THIS DATA WILL BE SUPPLIED BY GOALS.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Number Qualifier Code qualifying the Reference Number. ZZ Mutually Defined <i>Use to indicate the OPAC document reference number.</i>	M ID 2/2
Must Use	REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>1. This number will be provided by the OPAC system.</i> <i>2. Use of this data element is required.</i>	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

Segment:	DTM Date/Time Reference
Position:	060
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To specify pertinent dates and times
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of DTM02 DTM03 or DTM06 is required. 2 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	<i>This data will be supplied by GOALS OPAC and be used for both accomplished date and accounting date.</i>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 009 Process	M ID 3/3
Must Use	DTM02	373	Date Date (YYMMDD)	X DT 6/6
			<i>Use of this data element is required.</i>	
Must Use	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
			<i>Use of this data element is required.</i>	
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Must Use	DTM05	624	Century The first two characters in the designation of the year (CCYY)	O N0 2/2
Not Used	DTM06	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM07	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment:	N1 Name
Position:	070
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code
Syntax Notes:	1 At least one of N102 or N103 is required. 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:	
Comments:	1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. 2 N105 and N106 further define the type of entity in N101.
Notes:	<i>The N1 loop must be repeated twice. The N1 loop will be used to identify both the originator and receiver of the transaction.</i>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual <i>Treasury provided code when generated from the On-line system.</i> PE Payee PR Payer	M ID 2/2
N102	93	Name Free-form name <i>Not used in the On-line system. Organizations identified by the ALC in the N104 element.</i>	X AN 1/35
Must Use N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) <i>1. Treasury provided code when generated from the On-line system. 2. Use of this data element is required.</i> ZZ Mutually Defined <i>Use to indicate an Agency Location Code.</i>	X ID 1/2
Must Use N104	67	Identification Code Code identifying a party or other code <i>1. The 8 digit Agency Location Code assigned by Treasury. 2. Use of this data element is required.</i>	X AN 2/20
Not Used N105	706	Entity Relationship Code Code describing entity relationship	O ID 2/2
Not Used N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	O ID 2/2

Segment: **REF** Reference Numbers
Position: 110
Loop: N1
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:
Notes:

1. To provide OPAC DO Symbol reference number.
2. Use this segment when the N101 code is PR.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Number Qualifier Code qualifying the Reference Number. <i>EDIPAC fm On-line: Treasury provided code when generated from the On-line system.</i> DX Department/Agency Number <i>Indicates the OPAC Disbursing Office Symbol number.</i>	M ID 2/2
Must Use	REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>1. OPAC DO symbol of the originator of the 820 transaction set.</i> <i>2. Use of this data element is required.</i>	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80

Segment: **PER** Administrative Communications Contact

Position: 120

Loop: N1

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *Use this segment when the N101 code is PR.*

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named <i>Treasury provided code when generated from the On-line system.</i> AD Accounting Department IC Information Contact	M ID 2/2
Must Use PER02	93	Name Free-form name <i>1. Limited to 20 positions for the Contact Name in the On-line system. 2. Use of this data element is required.</i>	O AN 1/35
Must Use PER03	365	Communication Number Qualifier Code identifying the type of communication number <i>1. Treasury provided code when generated from the On-line system. 2. Use of this data element is required.</i> TE Telephone	X ID 2/2
Must Use PER04	364	Communication Number Complete communications number including country or area code when applicable <i>1. Maximum field size is 12 positions for the Telephone number in the On-line system. 2. Use of this data element is required. 3. Use PER06 if additional positions are needed.</i>	X AN 1/80
PER05	365	Communication Number Qualifier Code identifying the type of communication number <i>EDIPAC to On-line: Not used. Only one telephone is provided in the On-line system.</i> AU Defense Switched Network Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON) EM Electronic Mail FT Federal Telecommunications System (FTS) FX Facsimile IT International Telephone PS Packet Switching	X ID 2/2

820 - Payment Order/Remittance Advice

TE	Telephone
TL	Telex
TM	Telemail
TX	TWX

	PER06	364	Communication Number	X	AN 1/80
			Complete communications number including country or area code when applicable		
Not Used	PER07	365	Communication Number Qualifier	X	ID 2/2
			Code identifying the type of communication number		
Not Used	PER08	364	Communication Number	X	AN 1/80
			Complete communications number including country or area code when applicable		
Not Used	PER09	443	Contact Inquiry Reference	O	AN 1/20
			Additional reference number or description to clarify a contact number		

Segment:	ENT Entity
Position:	010
Loop:	ENT
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To designate the entities which are parties to a transaction and specify a reference meaningful to those entities
Syntax Notes:	<ol style="list-style-type: none"> 1 If any of ENT02 ENT03 or ENT04 is present, then all are required. 2 If any of ENT05 ENT06 or ENT07 is present, then all are required. 3 If either ENT08 or ENT09 is present, then the other is required.
Semantic Notes:	
Comments:	<ol style="list-style-type: none"> 1 This segment allows for the grouping of data by entity/entities at or within a master/masters. A master (e.g., an organization) can be comprised of numerous subgroups (e.g., entities). This master may send grouped data to another master (e.g., an organization) which is comprised of one or more entities. Groupings are as follows: <ol style="list-style-type: none"> (1) Single/Single: Only ENT01 is necessary, because there is a single entity (the sending master) communicating with a single entity (the receiving master). (2) Single/Multiple: ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. The sending master is a single entity, so no other data elements need be used. (3) Multiple/Single: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. The receiving master is a single entity, so no other data elements need be used. (4) Multiple/Multiple: ENT02, ENT03, and ENT04 would be used to identify the entities within the sending master. ENT05, ENT06, and ENT07 would be used to identify the entities within the receiving master. <p>This segment also allows for the transmission of a unique reference number that is meaningful between the entities.</p>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ENT01	554	Assigned Number Number assigned for differentiation within a transaction set <i>1. Treasury provided code when generated from the On-line system. 2. Use of this data element is required.</i>	O N0 1/6
Not Used	ENT02	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	X ID 2/2
Not Used	ENT03	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Not Used	ENT04	67	Identification Code Code identifying a party or other code	X AN 2/20
Not Used	ENT05	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	X ID 2/2
Not Used	ENT06	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Not Used	ENT07	67	Identification Code Code identifying a party or other code	X AN 2/20
Not Used	ENT08	128	Reference Number Qualifier Code qualifying the Reference Number.	X ID 2/2
Not Used	ENT09	127	Reference Number	X AN 1/30

820 - Payment Order/Remittance Advice

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Segment:	RMR Remittance Advice Accounts Receivable Open Item Reference
Position:	150
Loop:	RMR
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the accounts receivable open item(s) to be included in the cash application and to convey the appropriate detail
Syntax Notes:	1 If either RMR01 or RMR02 is present, then the other is required.
Semantic Notes:	1 If RMR03 is present, it specifies how the cash is to be applied. 2 RMR04 is the amount paid. 3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items. 4 RMR06 is the amount of discount taken which may be less than or equal to the amount of discount permitted.
Comments:	1 Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication. 2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present. 3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.
Notes:	<i>Trading partners using Table 2 should make every attempt to pass Agency detail data in the RMR loop.</i>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use RMR01	128	Reference Number Qualifier Code qualifying the Reference Number. <i>1. Treasury provided code when generated from the On-line system. 2. The original invoice number would normally be used in the RMR segment. 3. Any code may be used. The listed codes are samples only. Additional codes are shown in the REF segment (seq170).</i> <i>AX Government Accounting Class Reference Number (ACRN) BC Buyer's Contract Number C7 Contract Line Item Number CT Contract Number JB Job (Project) Number OI Original Invoice Number PO Purchase Order Number ZZ Mutually Defined</i>	X ID 2/2
Must Use RMR02	127	Reference Number Refer to 003050 Data Element Dictionary for acceptable code values. Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>1. EDIPAC to/fm On-line: This element can be used to match the following On-line fields: Invoice Number - Maximum 10 positions. PO - Maximum 17 positions. JAS - Maximum 12 positions. Contract Line Item - Maximum 6 positions.</i>	X AN 1/30

			2. Use of this data element is required.	
Must Use	RMR03	482	Payment Action Code	O ID 2/2
			Code specifying the type of accounts receivable open item(s) to be included in a cash application.	
			1. EDIPAC to/fm On-line: Treasury will modify from a 2 position field to 1 position for the final pay flag in the On-line system, that is "F" for final or "P" for partial.	
			2. Use of this data element is required.	
			FL	Final
			PP	Partial Payment
	RMR04	782	Monetary Amount	O R 1/15
			Monetary amount	
			Net payment. (The total value for all amounts in RMR04s should equal the value in BPR02.)	
Not Used	RMR05	782	Monetary Amount	O R 1/15
			Monetary amount	
Not Used	RMR06	782	Monetary Amount	O R 1/15
			Monetary amount	

Segment: **REF** Reference Numbers
Position: 170
Loop: RMR
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Number Qualifier Code qualifying the Reference Number. <i>1. EDIPAC to/fm On-line:</i> <i>Use code "ZZ" when the REF03 element is used to pass comments to the On-line system.</i> <i>Use code "EH" when the REF03 element is used to pass ACL/CD to the On-line system.</i> <i>Use code "FG" when the REF03 element is used to pass Appropriation to the On-line system.</i> <i>2. Any code may be used. The listed codes are samples only. Additional codes are shown in the REF segment (seq170).</i> <i>AX Government Accounting Class Reference Number (ACRN)</i> <i>BC Buyer's Contract Number</i> <i>C7 Contract Line Item Number</i> <i>CT Contract Number</i> <i>EH Final Classification Code</i> <i>FG Fund Identification Number</i> <i>JB Job (Project) Number</i> <i>OI Original Invoice Number</i> <i>PO Purchase Order Number</i> <i>ZZ Mutually defined</i> <i>Use to indicate comments appearing in REF03. This code can be used up to 4 times but each use is a separate repetition of this REF segment.</i>	M ID 2/2
Must Use	REF02	127	Reference Number Refer to 003050 Data Element Dictionary for acceptable code values. Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. <i>1. EDIPAC to/fm On-line: See RMR02 for maximum field sizes.</i> <i>2. Use of this data element is required.</i>	X AN 1/30
	REF03	352	Description A free-form description to clarify the related data elements and their content <i>EDIPAC to/fm On-line:</i> <i>The REF03 element can be used up to four times to report comments. Each use must be preceded by code "ZZ" in REF01.</i>	X AN 1/80

If the REF03 element is used to pass data to the ACL/CD or Appropriation fields in the On-line system, maximum field size is 11 positions. Must have code "EH" or "FG", respectively.

Segment:	DTM Date/Time Reference
Position:	180
Loop:	RMR
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required. 2 If either DTM06 or DTM07 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	<i>EDIPAC to On-line: This segment is not used by the On-line system. Use Table 2, REF03 element (seq170) to provide as comments.</i>

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time Refer to 003050 Data Element Dictionary for acceptable code values.	M ID 3/3
	DTM02	373	Date Date (YYMMDD)	X DT 6/6
	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Must Use	DTM05	624	Century The first two characters in the designation of the year (CCYY)	O N0 2/2
Not Used	DTM06	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM07	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: IT1 Baseline Item Data (Invoice)**Position:** 190**Loop:** IT1**Level:** Detail**Usage:** Optional**Max Use:** 1**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
 - 2 If either IT106 or IT107 is present, then the other is required.
 - 3 If either IT108 or IT109 is present, then the other is required.
 - 4 If either IT110 or IT111 is present, then the other is required.
 - 5 If either IT112 or IT113 is present, then the other is required.
 - 6 If either IT114 or IT115 is present, then the other is required.
 - 7 If either IT116 or IT117 is present, then the other is required.
 - 8 If either IT118 or IT119 is present, then the other is required.
 - 9 If either IT120 or IT121 is present, then the other is required.
 - 10 If either IT122 or IT123 is present, then the other is required.
 - 11 If either IT124 or IT125 is present, then the other is required.

Semantic Notes: 1 IT101 is the purchase order line item identification.

- Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
 - 2 IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350	Assigned Identification	O AN 1/11
		Alphanumeric characters assigned for differentiation within a transaction set	
Must Use IT102	358	Quantity Invoiced	X R 1/10
		Number of units invoiced (supplier units)	
		<i>Maximum field size is limited to 7 positions for the Quantity field in the On-line system.</i>	
Must Use IT103	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		<i>Any code maybe used. The listed codes are samples only.</i>	
		<i>BX Box</i>	
		<i>EA Each</i>	
		<i>EX Feet, Inches and Fraction</i>	
		<i>TN Net Ton (2,000 LB)</i>	
		Refer to 003050 Data Element Dictionary for acceptable code values.	
Must Use IT104	212	Unit Price	X R 1/17
		Price per unit of product, service, commodity, etc.	
		<i>Maximum field size is limited to 7 positions for the Unit Price field in the On-line system.</i>	
IT105	639	Basis of Unit Price Code	O ID 2/2
		Code identifying the type of unit price for an item	
		<i>This element is not used by the On-line system.</i>	
		Refer to 003050 Data Element Dictionary for acceptable code values.	
IT106	235	Product/Service ID Qualifier	X ID 2/2

		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT107	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT108	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT109	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT110	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT111	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT112	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT113	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT114	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT115	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT116	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT117	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT118	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		<i>This element is not used by the On-line system.</i>		
		Refer to 003050 Data Element Dictionary for acceptable code values.		
IT119	234	Product/Service ID	X	AN 1/40
		Identifying number for a product or service		
IT120	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		

<i>This element is not used by the On-line system.</i>		
Refer to 003050 Data Element Dictionary for acceptable code values.		
IT121	234	Product/Service ID X AN 1/40 Identifying number for a product or service
IT122	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234)
<i>This element is not used by the On-line system.</i>		
Refer to 003050 Data Element Dictionary for acceptable code values.		
IT123	234	Product/Service ID X AN 1/40 Identifying number for a product or service
IT124	235	Product/Service ID Qualifier X ID 2/2 Code identifying the type/source of the descriptive number used in Product/Service ID (234)
<i>This element is not used by the On-line system.</i>		
Refer to 003050 Data Element Dictionary for acceptable code values.		
IT125	234	Product/Service ID X AN 1/40 Identifying number for a product or service

Segment:	SAC Service, Promotion, Allowance, or Charge Information
Position:	202
Loop:	SAC
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of SAC02 or SAC03 is required. 2 If either SAC03 or SAC04 is present, then the other is required. 3 If either SAC06 or SAC07 is present, then the other is required. 4 If either SAC09 or SAC10 is present, then the other is required. 5 If SAC11 is present, then SAC10 is required. 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required. 7 If SAC14 is present, then SAC13 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required. 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence. 3 SAC08 is the allowance or charge rate per unit. 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge. 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used. 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
Comments:	<ol style="list-style-type: none"> 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02. 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.
Notes:	<i>The SAC segment is not used by the On-line system.</i>

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
Must Use	SAC01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
		N No Allowance or Charge	
		R Allowance Request	
	SAC02	1300 Service, Promotion, Allowance, or Charge Code	X ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		Refer to 003050 Data Element Dictionary for acceptable code values.	
Not Used	SAC03	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
Not Used	SAC04	1301 Agency Service, Promotion, Allowance, or Charge Code	X AN 1/10
		Agency maintained code identifying the service, promotion, allowance, or charge	

820 - Payment Order/Remittance Advice

	SAC05	610	Amount	O	N2 1/15
			Monetary amount		
Not Used	SAC06	378	Allowance/ Charge Percent Qualifier	X	ID 1/1
			Code indicating on what basis allowance or charge percent is calculated		
Not Used	SAC07	332	Percent	X	R 1/6
			Percent expressed as a percent		
Not Used	SAC08	118	Rate	O	R 1/9
			Rate expressed in the standard monetary denomination for the currency specified		
Not Used	SAC09	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	SAC10	380	Quantity	X	R 1/15
			Numeric value of quantity		
Not Used	SAC11	380	Quantity	O	R 1/15
			Numeric value of quantity		
Not Used	SAC12	331	Allowance or Charge Method of Handling Code	O	ID 2/2
			Code indicating method of handling for an allowance or charge		
Not Used	SAC13	127	Reference Number	X	AN 1/30
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.		
Not Used	SAC14	770	Option Number	O	AN 1/20
			A unique number identifying available promotion or allowance options when more than one is offered		
Not Used	SAC15	352	Description	O	AN 1/80
			A free-form description to clarify the related data elements and their content		

Segment: **ADX** Adjustment

Position: 210

Loop: ADX

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To convey accounts-payable adjustment information for the purpose of cash application, including payer-generated debit/credit memos

Syntax Notes: 1 If either ADX03 or ADX04 is present, then the other is required.

Semantic Notes: 1 ADX01 specifies the amount of the adjustment and must be signed if negative. If negative, it reduces the payment amount; if positive, it increases the payment amount.

2 ADX02 specifies the reason for claiming the adjustment.

3 ADX03 and ADX04 specify the identification of the adjustment.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ADX01	782	Monetary Amount Monetary amount	M R 1/15
Must Use	ADX02	426	Adjustment Reason Code Code indicating reason for credit memo, or adjustment to invoice, credit memo, or payment. Refer to 003050 Data Element Dictionary for acceptable code values.	M ID 2/2
	ADX03	128	Reference Number Qualifier Code qualifying the Reference Number. Refer to 003050 Data Element Dictionary for acceptable code values.	X ID 2/2
	ADX04	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	X AN 1/30

Segment: **PER** Administrative Communications Contact

Position: 230

Loop: ADX

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *This segment is not used by the On-line system.*

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
Must Use PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named AD Accounting Department IC Information Contact	M ID 2/2
Must Use PER02	93	Name Free-form name <i>Use of this data element is required.</i>	O AN 1/35
Must Use PER03	365	Communication Number Qualifier Code identifying the type of communication number <i>Use of this data element is required.</i> TE Telephone	X ID 2/2
Must Use PER04	364	Communication Number Complete communications number including country or area code when applicable <i>Use of this data element is required.</i>	X AN 1/80
PER05	365	Communication Number Qualifier Code identifying the type of communication number AU Defense Switched Network Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON) EM Electronic Mail FT Federal Telecommunications System (FTS) FX Facsimile IT International Telephone PS Packet Switching TE Telephone TL Telex TM Telemail TX TWX	X ID 2/2
PER06	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

820 - Payment Order/Remittance Advice

Not Used	PER07	365	Communication Number Qualifier Code identifying the type of communication number	X	ID 2/2
Not Used	PER08	364	Communication Number Complete communications number including country or area code when applicable	X	AN 1/80
Not Used	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O	AN 1/20

Segment: **SE** Transaction Set Trailer
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	